chain nodes :
    1   2   3   4   5   6   7   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27
    28   29   30   31   32   33   34   35   36   37   42   45   46   47   55   56   57   62
chain bonds :
    1-2   1-3   1-4   3-62   4-5   5-6   5-7   5-9   6-55   10-11   10-12   10-13   14-15   14-16   14-17   18-19
    18-20   18-21   22-23   23-24   24-25   25-26   25-27   28-29   28-37   29-30   30-31   30-32   30-36
    32-33   32-34   35-42   35-45   45-46   45-47
exact/norm bonds :
    1-2   1-3   3-62   5-6   5-9   6-55   29-30
exact bonds :
    1-4   4-5   5-7   10-11   10-12   10-13   14-15   14-16   14-17   18-19   18-20   18-21   22-23   23-24
    24-25   25-26   25-27   28-29   28-37   30-31   30-32   30-36   32-33   32-34   35-42   35-45   45-46
    45-47

G1:H,F

G2:[*1],[*2],[*3],[*4],[*5],[*6]

G3:[*7],[*8]

Match level :
    1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:CLASS   9:CLASS   10:CLASS   11:CLASS
    12:CLASS   13:CLASS   14:CLASS   15:CLASS   16:CLASS   17:CLASS   18:CLASS   19:CLASS   20:CLASS
    21:CLASS   22:CLASS   23:CLASS   24:CLASS   25:CLASS   26:CLASS   27:CLASS   28:CLASS   29:CLASS
    30:CLASS   31:CLASS   32:CLASS   33:CLASS   34:CLASS   35:CLASS   36:CLASS   37:CLASS   42:CLASS
    45:CLASS   46:CLASS   47:CLASS   55:CLASS   56:CLASS   57:CLASS   62:CLASS